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GenCore version 5.1.4-p5.4578

run on: May 12, 2003, 15:05:12 : Search time 27 Seconds (without alignments)  
 (without alignments)  
 2696.012 Million cell updates/sec

protein - protein search, using sw model

title: US-09-804-472-2

Sequence: 1 MDASSDPYLPGGGDNIPL.....DIRKHAMQATANQDPASTMEN 791

Sequence: 2 US-09-804-472-2

Sequence: 3 Gap 10.0 , Gapext 0.5

Sequence: 4 searched: 349150 seqs, 92025710 residues

Sequence: 5 minimum DB seq length: 0

Sequence: 6 maximum DB seq length: 200000000

Sequence: 7 post-processing: Minimum Match 0%

Sequence: 8 Maximum Match 100%

Sequence: 9 Listing first 45 summaries

Sequence: 10 Published Applications AA: \*

Sequence: 11 1: /cgn2\_6/ptodata/1/pubpaa/us08\_NEWPUB.pep:\*

Sequence: 12 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEWPUB.pep:\*

Sequence: 13 3: /cgn2\_6/ptodata/1/pubpaa/us06\_NEWPUB.pep:\*

Sequence: 14 4: /cgn2\_6/ptodata/1/pubpaa/us05\_PUBCOMB.pep:\*

Sequence: 15 5: /cgn2\_6/ptodata/1/pubpaa/us07\_NEWPUB.pep:\*

Sequence: 16 6: /cgn2\_6/ptodata/1/pubpaa/us07\_PUBCOMB.pep:\*

Sequence: 17 7: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*

Sequence: 18 8: /cgn2\_6/ptodata/1/pubpaa/us08\_PUBCOMB.pep:\*

Sequence: 19 9: /cgn2\_6/ptodata/1/pubpaa/us09\_NEWPUB.pep:\*

Sequence: 20 10: /cgn2\_6/ptodata/1/pubpaa/us05\_PUBCOMB.pep:\*

Sequence: 21 11: /cgn2\_6/ptodata/1/pubpaa/us10\_NEWPUB.pep:\*

Sequence: 22 12: /cgn2\_6/ptodata/1/pubpaa/us10\_PUBCOMB.pep:\*

Sequence: 23 13: /cgn2\_6/ptodata/1/pubpaa/us60\_NEWPUB.pep:\*

Sequence: 24 14: /cgn2\_6/ptodata/1/pubpaa/us60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result NO.	Score	Query Match Length	DB ID	Description
1	4177	100 0	791 10	US-09-804-472-2
2	4033	96 6	765 10	US-09-804-472-4
3	4022	96 3	767 10	US-09-804-472-5
4	3217	77.0	747 9	US-10-109-562A-2
5	2619	62.7	851 9	US-09-991-936-1915
6	822	19.7	182 10	US-09-864-761-2913
7	687.5	16.5	166 10	US-09-864-761-47670
8	565.5	13.5	161 10	US-09-864-761-34035
9	311	7.4	60 10	US-09-804-472-6
10	267	6.4	75 10	US-09-864-761-34036
11	240	5.7	50 10	US-09-864-761-37070
12	169	4.0	423 9	US-09-738-636-3570
13	115.5	2.8	329 12	US-10-014-502-2
14	112.5	2.7	1094 9	US-09-712-63-287
15	112	2.7	2894 9	US-10-044-995-23
16	112	2.7	2894 10	US-09-941-611-23
17	112	2.7	3011 10	US-09-916-359-2
18	111	2.7	9 10	US-10-216-355-2
19	2.6	828 9	US-10-210-336-2	

ALIGNMENTS

RESULT 1

Sequence 2, Application US/09804472

Patent No. US20020143146A1

GENERAL INFORMATION:

APPLICANT: SHAO, Wei et al.

TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS, AND USES THEREOF

FILE REFERENCE: C2001163

CURRENT APPLICATION NUMBER: US/09-804,472

CURRENT FILING DATE: 2001-03-13

NUMBER OF SEQ ID NOS: 6

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 2

LENGTH: 791

TYPE: PRT

ORGANISM: Human

US-09-804-472-2

Query	Match	Score	100.0%	Score	4177;	DB	10;	Length	791;			
Best	Local	Similarity	100.0%	Pred.	No.	0;	Mismatches	0;	Indels	0;	Gaps	0;
Matches	791;	Conservative	0;									

QY 1 MDASSDPYLPGGGDNIPLIRELHKRSHYTMNGGSNSNSTLILDEPILPGVGTDD 60

QY 1 MDASSDPYLPGGGDNIPLIRELHKRSHYTMNGGSNSNSTLILDEPILPGVGTDD 60

QY 61 FMTIDWREKCDRERRRIRRINSKKESSWEMKSLYIAGSGWVWLTGGLASGLAIGID 120

QY 61 FMTIDWREKCDRERRRIRRINSKKESSWEMKSLYIAGSGWVWLTGGLASGLAIGID 120

Db 61 FMTIDWREKCDRERRRIRRINSKKESSWEMKSLYIAGSGWVWLTGGLASGLAIGID 120

Db 121 IADWMMDLKEGICLSSLWLYINHQCCNGSNETFEERDKCPQMTWABLIGQEGGSY 180

Db 121 IADWMMDLKEGICLSSLWLYINHQCCNGSNETFEERDKCPQMTWABLIGQEGGSY 180

QY 181 INNYIMYIWFIALSFAFLAVSILVKAFAVYACGSCPEKTIISGFLINGYLGKWTLMKTI 240

QY 181 INNYIMYIWFIALSFAFLAVSILVKAFAVYACGSCPEKTIISGFLINGYLGKWTLMKTI 240

Db 181 INNYIMYIWFIALSFAFLAVSILVKAFAVYACGSCPEKTIISGFLINGYLGKWTLMKTI 240

QY 241 TLVLAVASGLSLGKEGGLYHVACCCGNGIISYLEPKYSTNEAKKREVISAASAGVSVAFG 300

Db 241 TUVLAVASGLSLGKKEGLPLVHVACCGNFSVYFPKYSTNEAKKREVLSAASAGVSAFG 300  
 Qy 301 APTGGVILSPLSLEEVSYYPPLKTIWRSFFALVAFAVRSINPFGNSRLVLFVYEHPTWYL 360  
 Db 301 APGGVILSLEEVSYYPPLKTIWRSFFALVAFAVRSINPFGNSRLVLFVYEHPTWYL 360  
 Qy 361 FELPFPLILGFGGLMGAFFTRANIAWRKSTKREGKPYVPLLEVITAAVAPVAPNPY 420  
 Db 361 FELPFPLILGFGGLMGAFFTRANIAWRKSTKREGKPYVPLLEVITAAVAPVAPNPY 420  
 Qy 421 TRNTSLSLKELETFDCGPLESSLCLDYRNDMASKIVDDIDPRPAGIGVSYAIWQLCL 480  
 Db 421 TRNTSLSLKELETFDCGPLESSLCLDYRNDMASKIVDDIDPRPAGIGVSYAIWQLCL 480  
 Qy 481 CTPGLGLAMVGAACLGGVTRMVSUVFPLTGLLEYTVPMLAAVMTSKWVGDAFRE 600  
 Db 481 CTPGLGLAMVGAACLGGVTRMVSUVFPLTGLLEYTVPMLAAVMTSKWVGDAFRE 600  
 Qy 501 GIVEAHTRLNGPFELDAKEEFTHTLAADVPRPDRPPLVLTQNMVTDIENMINET 660  
 Db 501 GIVEAHTRLNGPFELDAKEEFTHTLAADVPRPDRPPLVLTQNMVTDIENMINET 660  
 Qy 661 SYNGFPIMSKESQRVLGFAFLRDLTIAESARKQEGIVSSRVQFAQHPSLPAESR 720  
 Db 661 SYNGFPIMSKESQRVLGFAFLRDLTIAESARKQEGIVSSRVQFAQHPSLPAESR 720  
 Qy 721 PIKRLSILDMSPTVTDHTPMEIVWDIFRKLGRLQCLVTHNORLGLITKKDILRMAQT 780  
 Db 721 PIKRLSILDMSPTVTDHTPMEIVWDIFRKLGRLQCLVTHNORLGLITKKDILRMAQT 780  
 Qy 781 ANQDPASIMEN 791  
 Db 781 ANQDPASIMEN 791

RESULT 2  
 US-09-804-472-4  
 ; Sequence 4, Application US/09804472  
 ; Patent No. US2002043146A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SHAO, Wei et al.  
 ; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
 ; FILE REFERENCE: C2001163  
 ; CURRENT APPLICATION NUMBER: US/09/804,472  
 ; CURRENT FILING DATE: 2001-03-13  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 765  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-804-472-4

Query Match 96.6%; Score 4033; DB 10; Length 765;  
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
 Matches 765; Conservative

Db 121 WGSNETTFFERKCPQMKTWALIIGQAEQGSYIINYIMWFWSFAFLAVSLVKFA 180  
 Qy 207 PYACGSGIPEKTIILSFTIIRSYLGKMLMTITLVLAVASGLSLGKEGLPLVHVACCG 266  
 Db 181 PYACGSGIPEKTIILSFTIIRSYLGKMLMTITLVLAVASGLSLGKEGLPLVHVACCG 240  
 Qy 267 INFISYLPKYSTNEAKKREVLSAASAGVSYAFGAPIGGVFSLEEVSYFPKTWRF 326  
 Db 241 INFISYLPKYSTNEAKKREVLSAASAGVSYAFGAPIGGVFSLEEVSYFPKTWRF 300  
 Qy 327 FAALVAFAVRLSINPFGNSRLVLFVYEHPTWYLPLFELPFPLILGFGGLMGAFFTRANIA 386  
 Db 301 FAALVAFAVRLSINPFGNSRLVLFVYEHPTWYLPLFELPFPLILGFGGLMGAFFTRANIA 360  
 Qy 387 WCRRKSTKFGKPYVPLLEVITAAVAPVAPNPYTRNTSLSLKELETFDCGPLESSLCD 446  
 Db 361 WCRRKSTKFGKPYVPLLEVITAAVAPVAPNPYTRNTSLSLKELETFDCGPLESSLCD 420  
 Qy 447 YRNDMASKIVDDIDPRPAGIGVSYAIWQLCL 506  
 Db 421 YRNDMASKIVDDIDPRPAGIGVSYAIWQLCL 480  
 Qy 507 GAIAGRIVGIAVEQLAYVHHDFIFKREWCEVADCTPGLYAMVGAACLGGVTRMVL 566  
 Db 481 GAIAGRIVGIAVEQLAYVHHDFIFKREWCEVADCTPGLYAMVGAACLGGVTRMVL 540  
 Qy 567 WIVFELTGLLEYTVPMLAAVMTSKWVGDAFREGTIEAHTRLNGPFPLKKEEFTHTL 626  
 Db 541 WIVFELTGLLEYTVPMLAAVMTSKWVGDAFREGTIEAHTRLNGPFPLKKEEFTHTL 600  
 Qy 627 AAADVMRPRRNPPLVLTQNMVTDIENMINETSYNGFPIMSKESQRVLGFAFLRDLT 686  
 Db 601 AAADVMRPRRNPPLVLTQNMVTDIENMINETSYNGFPIMSKESQRVLGFAFLRDLT 660  
 Qy 687 TAESARKQEGIVGSSRVQFAQHPSLPAESRPLKRLSTLDMSPFTVTDHTPMEIVWD 746  
 Db 661 TAESARKQEGIVGSSRVQFAQHPSLPAESRPLKRLSTLDMSPFTVTDHTPMEIVWD 720  
 Qy 747 IFRKLGLRQCLVTHNORLGLITKKDILRMAQTANQDPASIMEN 791  
 Db 721 IFRKLGLRQCLVTHNORLGLITKKDILRMAQTANQDPASIMEN 765

RESULT 3  
 US-09-804-472-5  
 ; Sequence 5, Application US/09804472  
 ; Patent No. US2002043146A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SHAO, Wei et al.  
 ; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
 ; FILE REFERENCE: C2001163  
 ; CURRENT APPLICATION NUMBER: US/09/804,472  
 ; CURRENT FILING DATE: 2001-03-13  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 5  
 ; LENGTH: 767  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-804-472-5

Query Match 96.3%; Score 4022; DB 10; Length 767;  
 Best Local Similarity 99.3%; Pred. No. 0; Mismatches 0; Indels 2; Gaps 1;  
 Matches 765; Conservative

Db 27 GTHYTMNGGSNSTHLLDILDEPTPGVGYYDDFTIDWREKCKDRERHRRNSKKE 86  
 Db 1 GTHYTMNGGSNSTHLLDILDEPTPGVGYYDDFTIDWREKCKDRERHRRNSKKE 60  
 Qy 87 SAWEMTKSLYDWAWSGLWVUTLGLASGALAGLIDADWMDLKGICLALSALWVHEQCC 146  
 Db 61 SAWEMTKSLYDWAWSGLWVUTLGLASGALAGLIDADWMDLKGICLALSALWVHEQCC 120  
 Qy 147 WGSNETTFFERKCPQMKTWALIIGQAEQGSYIINYIMWFWSFAFLAVSLVKFA 206  
 Qy 87 SAWEMTKSLYDWAWSGLWVUTLGLASGALAGLIDADWMDLKGICLALSALWVHEQCC 146

Db 61 SAWEMTKSLYDASGMLVVTJLGLASGALGLIDTAADMWMDLKGICLUSALWVNHQCQ 120  
 Qy 147 WGSNETTFERDKCPOKWTWELITQQAEGPSYIMNYIMWIFWALSFALAVSLVKA 206  
 Db 121 WGSNETTFERDKCPOKWTWELITQQAEGPSYIMNYIMWIFWALSFALAVSLVKA 180  
 Qy 207 PYACGGSGIPEKTIUSGFIIRGILGKWTLMKTTIWLAVASGLSIGKECPVHACCG 266  
 Db 181 PYACGGSGIPEKTIUSGFIIRGILGKWTLMKTTIWLAVASGLSIGKECPVHACCG 240  
 Qy 267 NIFSYLFPKSTNEAKKREVISAAASAGVSVAGPAGIGLFLSLBESVSYFPLKTLWRSF 326  
 Db 241 NIFSYLFPKSTNEAKKREVISAAASAGVSVAGPAGIGLFLSLBESVSYFPLKTLWRSF 300  
 Qy 327 FAALVAFAVRSINPGNSRLVLFVVEYHTPWLFPLFPFLGFGGNGAFFRANIA 386  
 Db 301 FAALVAFAVRSINPGNSRLVLFVVEYHTPWLFPLFPFLGFGGNGAFFRANIA 360  
 Qy 387 WCRRKSTKQKPYLVEVITVIAITAVIAPIANPNPYTFLNTSLIKEPLFTDGGPLESSLCD 446  
 Db 361 WCRRKSTKQKPYLVEVITVIAITAVIAPIANPNPYTFLNTSLIKEPLFTDGGPLESSLCD 420  
 Qy 447 YRNDDMANKTVDIDPDRPAGIVYSAIWIOPCLALTFKIMMVFTFGIKVSGLFPSMAT 506  
 Db 421 YRNDDMANKTVDIDPDRPAGIVYSAIWIOPCLALTFKIMMVFTFGIKVSGLFPSMAT 480  
 Qy 507 GAIAGRIVGIAVEQOLAYYHDFIFKEWCGACDITPGLYAMVGAACLGGVTRMTVS 566  
 Db 481 GAIAGRIVGIAVEQOLAYYHDFIFKEWCGACDITPGLYAMVGAACLGGVTRMTVS 540  
 Qy 567 WIVFELTGGLEYTPLMAAMTSKWSKGDAFGREGIYEAHIRLNGYPFLDAKE--EFTHT 624  
 Db 541 WIVFELTGGLEYTPLMAAMTSKWSKGDAFGREGIYEAHIRLNGYPFLDAKE--EFTHT 600  
 Qy 625 TLAADMVRPRNDPPLAVLTDNMVTDIENMINESYNGPVIMSKESRVLGAFALRQ 684  
 Db 601 TLAADMVRPRNDPPLAVLTDNMVTDIENMINESYNGPVIMSKESRVLGAFALRQ 660  
 Qy 685 LTIAESARKQEGIVGSSRCFAOPTPSLPAESPRPLKRSILDSMSPFTDHTPMEIV 744  
 Db 661 LTIAESARKQEGIVGSSRCFAOPTPSLPAESPRPLKRSILDSMSPFTDHTPMEIV 720  
 Qy 745 VDIFRKLGRLQCLVTHNGRLGILITKKDILRHMATQANQDPASIMFN 791  
 Db 721 VDIFRKLGRLQCLVTHNGRLGILITKKDILRHMATQANQDPASIMFN 767  
 RESULT 4  
 US-10-109-562A-2  
 ; Sequence 2, Application US/10109562A  
 ; Publication No. US2003033625A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Allen, Keith D.  
 ; TITLE OF INVENTION: TRANSMIC MICE CONTAINING CLCN4  
 ; TITLE OF INVENTION: CHLORIDE ION CHANNEL GENE DISRUPTIONS  
 ; FILE REFERENCE: R-890  
 ; CURRENT APPLICATION NUMBER: US/10/109,562A  
 ; CURRENT FILING DATE: 2002-03-28  
 ; PRIOR APPLICATION NUMBER: US 60/280,312  
 ; PRIOR FILING DATE: 2001-03-29  
 ; PRIOR APPLICATION NUMBER: US 60/324,640  
 ; PRIOR FILING DATE: 2001-09-24  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 2  
 ; LENGTH: 747  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-10-109-562A-2  
 ; Best Local Similarity 77.0%; Score 3217; DB 9; Length 747;  
 ; Matches 580; Conservative 83; Mismatches 84; Indels 0; Gaps 0;  
 ; Number of Seq ID NOS: 1959  
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 Qy 45 LDLDLDPPIPGYTYDPIFTDPIWRECKDRHRRNSKKESEAWNTKSLYDAGWGLV 104  
 Db 1 LDMDLEPPDPVGTYDPIFTDPIWRECKDRHRRNSKKESEAWNTKSLYDAGWGLV 60  
 Db 105 VLTGLASLAGLIIADWMWDLKEGICLUSALWVNEOCWGSNETTEERDKCPOWK 164  
 Qy 165 TWAELITGOAEGPSYIMNYIMWIFWALSFALAVSLSVFKVAPYACGSGIBKTIITLGF 224  
 Db 121 KWSSELLISQSEGASAVILNLYMILWALFAFLAVSLVRLVAPYAGSGSIEKTIITLGF 180  
 Qy 225 TIRGYLGKWTWIKTTIWLAVASGLSIGKSGPPLVIVACCGNIFSYLFPKSTNAAKKR 284  
 Db 181 TIRGYLGKWTWIKTTIWLAVASGLSIGKSGPPLVIVACCGNIFSYLFPKSTNAAKKR 240  
 Qy 285 EVLSAASAAGVSVAFAPIGGLFLSLEEVSYFPLKILWRSFFAALVAFLRSIIPFGN 344  
 Db 301 SRLVLYIYEYHTPWYMAELFFPLLGFVGGGLMGLTFLTRCNIAWCRRKTRTLGRIVLEV 360  
 Qy 241 EVLSAASAAGVSVAFAPIGGLFLSLEEVSYFPLKILWRSFFAALVAFLRSIIPFGN 300  
 Qy 345 SRLVLYIYEYHTPWYMAELFFPLLGFVGGGLMGLTFLTRCNIAWCRRKTRTLGRIVLEV 404  
 Db 361 IAVTAAAGVSVAFAPIGGLFLSLEEVSYFPLKILWRSFFAALVAFLRSIIPFGN 300  
 Qy 361 IAVTAAAGVSVAFAPIGGLFLSLEEVSYFPLKILWRSFFAALVAFLRSIIPFGN 420  
 Qy 465 AGIGVVAIWLQCLALFKIMMVFTFGIKVPSLIPSMAGAAGRIVGIAVEQOLAYY 524  
 Db 421 AGIGVVAIWLQCLALFKIMMVFTFGIKVPSLIPSMAGAAGRIVGIAVEQOLAYY 500  
 Qy 525 HHDWFTEKWCVEVGACDITPGLYAMVGAACLGGVTRMTVSLLVTFELTGGLEYVPLM 584  
 Db 481 HHDWFTEKWCVEVGACDITPGLYAMVGAACLGGVTRMTVSLLVTFELTGGLEYVPLM 540  
 Qy 585 AAUWTSKWWGDAFGREGIYEAHIRLNGYPFLDAKEEFTHTLAADMVRPRNDPPLAVLT 644  
 Db 541 AAUWTSKWWGDAFGREGIYEAHIRLNGYPFLDAKEEFTHTLAADMVRPRNDPPLAVLT 600  
 Qy 645 QDNMTVDIENMINESYNGPVIMSKESRVLGAFALRHMATQANQDPASIMFN 704  
 Db 601 QDSMTTDEVDLKEIDYNGPVIMSKESRVLGAFALRHMATQANQDPASIMFN 660  
 Qy 705 VCFALQHPSLPAESPRPLKRSILDSMSPFTDHTPMEIVDIFRKLGRLQCLVTHNGRL 764  
 Db 661 MYFTEPPPELPPANSPLKLRIFNISPFTDHTPMEIVDIFRKLGRLQCLVTHNGRL 720  
 Qy 765 LGITTKDILRHMATQANQDPASIMFN 791  
 Db 721 LGITTKDILRHMATQANQDPASIMFN 747  
 RESULT 5  
 US-09-991-936-1915  
 ; Sequence 1915, Application US/09991936  
 ; Publication No. US20030073827A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brandt, Kevin S.  
 ; APPLICANT: Gaines, Patrick J.  
 ; APPLICANT: Stinchcomb, Dan T.  
 ; APPLICANT: Wisnewski, Nancy  
 ; TITLE OF INVENTION: FIBER HEAD, NERVE CORD, HINDGUT AND MALPIGHIAN TUBULE  
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES, PROTEINS AND USES THEREOF  
 ; FILE REFERENCE: FC-6-C1  
 ; CURRENT APPLICATION NUMBER: US/09/991,936  
 ; CURRENT FILING DATE: 2001-11-21  
 ; PRIOR APPLICATION NUMBER: US/09/543,668  
 ; PRIOR FILING DATE: 2000-04-07  
 ; PRIOR APPLICATION NUMBER: 60/128,704  
 ; PRIOR FILING DATE: 1999-04-09  
 ; NUMBER OF SEQ ID NOS: 1959



Query Match 16.5%; Score 687.5%; DB 10; Length 166;  
 Best Local Similarity 74.3%; Pred. No. 2.6e-56;  
 QY 493 IK 494 :1  
 Db 181 MK 182

RESULT 7  
 US-09-864-761-47670  
 Sequence 47670, Application US/09864761  
 Patent No. US20020048763A1  
 GENERAL INFORMATION:  
 APPLICANT: Penn, Sharron G.  
 APPLICANT: Rank, David R.  
 APPLICANT: Hanzel, David K.  
 APPLICANT: Chen, Wensheng  
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 FILE REFERENCE: Aenomica X-1  
 CURRENT APPLICATION NUMBER: US/09-864-761  
 CURRENT FILING DATE: 2001-05-23  
 PRIOR APPLICATION NUMBER: US 60/180, 312  
 PRIOR FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: US 60/207, 456  
 PRIOR FILING DATE: 2000-05-26  
 PRIOR APPLICATION NUMBER: US 09/632, 386  
 PRIOR FILING DATE: 2000-08-03  
 PRIOR APPLICATION NUMBER: GB 24263.6  
 PRIOR FILING DATE: 2000-10-04  
 PRIOR APPLICATION NUMBER: US 60/236, 359  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00667  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00664  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00669  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00665  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00668  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00663  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00662  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00661  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00670  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: US 60/234, 687  
 PRIOR FILING DATE: 2000-09-21  
 PRIOR APPLICATION NUMBER: US 09/608, 408  
 PRIOR FILING DATE: 2000-06-30  
 PRIOR APPLICATION NUMBER: US 09/774, 203  
 PRIOR FILING DATE: 2001-01-29  
 NUMBER OF SEQ ID NOS: 49117  
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
 SEQ ID NO 47670  
 LENGTH: 166  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: MAP TO AJ239323, 2  
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 8.9  
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.9  
 OTHER INFORMATION: EST HUMAN HIT: AJ133285.1, EVALUE 1.00e-60  
 OTHER INFORMATION: SWISSPROT HIT: P51795, EVALUE 5.00e-82  
 US-09-864-761-47670

RESULT 8  
 US-09-864-761-34035  
 Sequence 34035, Application US/09864761  
 Patent No. US20020048763A1  
 GENERAL INFORMATION:  
 APPLICANT: Penn, Sharron G.  
 APPLICANT: Rank, David R.  
 APPLICANT: Hanzel, David K.  
 APPLICANT: Chen, Wensheng  
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 FILE REFERENCE: Aenomica X-1  
 CURRENT APPLICATION NUMBER: US/09-864-761  
 CURRENT FILING DATE: 2001-05-23  
 PRIOR APPLICATION NUMBER: US 60/180, 312  
 PRIOR FILING DATE: 2000-08-03  
 PRIOR APPLICATION NUMBER: GB 24263.6  
 PRIOR FILING DATE: 2000-10-04  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00669  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00667  
 PRIOR FILING DATE: 2001-01-30  
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 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00661  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00660  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00669  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00668  
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 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00667  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: US 09/608, 408  
 PRIOR FILING DATE: 2000-06-30  
 PRIOR APPLICATION NUMBER: US 09/774, 203  
 PRIOR FILING DATE: 2001-01-29  
 NUMBER OF SEQ ID NOS: 49117  
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
 SEQ ID NO 34035  
 LENGTH: 161  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: MAP TO AC03666.1

QY 328 AALVAFLVRSINPFGNSRLVLFYVEYHPTWYLFLEPFTLGSVGGUNGAFFIRANIAW 387  
 Db 1 AALVAFLVRSINPFGNSRLVLFYVEFHTPWHLFELVPTLGGIIGLNGALFIRNTIAW 60

QY 388 CRRRKSTKFGKPVLEVIVAAITAVIAFPNPVTRNLNTSELKIFLTDGCPLESSLCDY 447  
 Db 61 CRKRKSTKFGKPVLEVIVAAITAVIAFPNPVTRNLNTSELKIFLTDGCPLESSLCDY 447  
 QY 448 RNDMNASKTVDIDPDRPAGTVVSAIWOIQLCLALIFKIMVFTFGIK 494  
 Db 121 ENRFNTSK-GGELPDRPAGVY-SAMWQIAITLTLKIVITIFFGMK 166



APPLICANT: Chen, Wensheng  
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 FILE REFERENCE: Aeonlica-X-1  
 CURRENT APPLICATION NUMBER: US/09/864,761  
 CURRENT FILING DATE: 2001-05-23  
 PRIOR APPLICATION NUMBER: US 60/180,312  
 PRIOR FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: US 60/207,456  
 PRIOR FILING DATE: 2000-05-26  
 PRIOR APPLICATION NUMBER: US 09/632,366  
 PRIOR FILING DATE: 2000-08-03  
 PRIOR APPLICATION NUMBER: GB 24263,6  
 PRIOR FILING DATE: 2000-10-04  
 PRIOR APPLICATION NUMBER: US 60/236,359  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00667  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00664  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00669  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00665  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00663  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00662  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00661  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00670  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: US 60/234,687  
 PRIOR FILING DATE: 2000-09-21  
 PRIOR APPLICATION NUMBER: US 09/608,408  
 PRIOR FILING DATE: 2000-06-30  
 PRIOR APPLICATION NUMBER: US 09/774,203  
 PRIOR FILING DATE: 2001-01-29  
 NUMBER OF SEQ ID NOS: 49117  
 SOFTWARE: Annotrax Sequence Listing Engine vers. 1.1  
 SEQ ID NO 37070  
 LENGTH: 50  
 TYPE: PRT  
 ORGANISM: *Corynebacterium glutamicum*  
 US-09-738-626-3570  
 Query Match 4.0% Score 169; DB 9; Length 423;  
 Best Local Similarity 20.8%; Pred. No. 3.1e-07;  
 Matches 89; Conservative 62; Mismatches 145; Indels 132; Gaps 15;  
 QY 190 WALSFALR---VSLVKVFAYACGSCIPERKILTSGLFIRGLGKWTLMKTTLVA 245  
 Db 71 WAFFFVIRTGPKEVSTVGAIR---GKMPVLTETLASFV-----QVTT 110  
 QY 246 VASGLSLGKEGPLVHVACCGNITSFLPKYSNEAKRREVSASAAGSVVAFGADIGG 305  
 Db 111 VAGAPGVGAENAPRIAGALVGERFSRNL---OLDIDAKRILYASAAGGAGASFHPLAG 167  
 QY 306 VIFSLS-----EVYYFELKTLRMSFEEALVAAFLVLSINPFGNSRLVLFVWYHTPLF 361  
 Db 168 VLFALLEVLLVEASTRTVVIAITTTAAVATGFRVOTPDVFSTVPLT----ESPMWL 221  
 QY 362 EIRPFILGVFGGLWGAFFRA-----NTAWCRRKSTKFGKYPPLEVITVA 409  
 Db 222 AA---MVTGWAGMCGWFSAAHKMAQASPKGVKILW-----QMPIGFVWIAV 268  
 QY 410 ITAVIAFPNPYTRLNTSELKFLTDGPLESSLCYLDRNDNNASKTVDDIDPRPAGIV 469  
 Db 269 I----YFPETLNLPRWLADMSLMDGLISTL----- 297  
 QY 470 YKAIWOLCLALIFKLTIMVETFGIKPGSGLFIPSMAIGAIGRIVGIAVEQDLYVHDWF 529  
 Db 298 -----LVLVLRATMFLLAFRVGMVGNNLTPAFALGSMWGVGVAVLEPTN----- 343  
 QY 530 IFEKWCENGADCPITPGLYAMGAAACIGGVTRMTVSLWVTFETGLEY-----IVP 582  
 Db 344 -----VPIAAFALGAAAF-----STMAPFGLIAVEFDMEOAGYLP 385  
 RESULT 13  
 Best Local Similarity 74.0%; Pred. No. 3.1e-15; Matches 37; Conservative 8; Mismatches 5; Indels 0; Gaps 0;  
 QY 126 MIDLKEGICLUSALWYHNEQCGSNETTFERDKCQWKTWAELIQLGAE 175  
 Db 1 MIDLKEGICLUSALWYHNEQCGSNETTFERDKCQWKTWAELIQLGAE 175  
 ; Sequence 2, Application US/1014502  
 ; Patent No. US2002013718A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: YE, Jane et al.  
 ; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,

RESULT 12  
 US-09-738-626-3570  
 ; Sequence 3570, Application US/09/38626  
 ; Publication No. US20020197605A1



FILING DATE: 15-Jan-2002  
 CLASSIFICATION: <Unknown>  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 08/391,671  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 07/920,286  
 FILING DATE: 14-OCT-1992  
 APPLICATION NUMBER: WO PCT/EP91/02409  
 FILING DATE: 13-DEC-1991  
 APPLICATION NUMBER: EP 90124241.2  
 FILING DATE: 14-DEC-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: SADOFF, B.J.  
 REGISTRATION NUMBER: 36,663  
 REFERENCE/DOCKET NUMBER: 1487-5  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703/8164000  
 TELEX/FAX: 7038164100  
 INFORMATION FOR SEQ ID NO: 23:  
 LENGTH: 2894 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 SEQUENCE DESCRIPTION: SEQ ID NO: 23:  
 US 10-044-995-23  
 Query Match 2.7%; Score 112; DB 9; Length 2894;  
 Best Local Similarity 20.8%; Pred. No. 1.1; Gaps  
 Matches 80; Conservative 54; Mismatches 140; Indels 110; Gaps  
 QY 65 DWYER-ERK--KDRERRRINKKRSKESAWENTNSKLYDAWSGGWLVTLTGLASGAL--AGT 118  
 Db 645 NWTRGERCCLDORSELSPLLLTTQWQLPCSF-----TTLPALSTGLLHQNT 696  
 QY 119 IDI-----AADWMTDKIREGICLTSALSWYHNEQCCWGSNETTFFERDKCPQWKTWAEI 169  
 Db 697 VDVQVLYVGSSIASWAIKWEYVVLFLFLLADARVC-----SC----LWMLL 739  
 QY 170 IIGOAEGCCSYIMNYIMYIFWALSPAFLAWSLVK--VERPACGSGIPEKTIILSGFIR 227  
 Db 740 LLSQAE--AALENLVLUNAASLAGTHGLWSEFLVFCFAYWLLKKWP-----GAVWT 789  
 QY 228 GYLGKWTLMKTTIYLVLAVAS-GLSLGKGEGPLVHACCCGNTFSYLPKYSTNEAKKREV 286  
 Db 790 FY-GMWPLLL--LLLAFLQRAYALDTE---VAASCGGV-----V 822  
 QY 287 LSAASAAGGVSVAFGAPAGIGVLFSLLEVSYFPLKTLWRSFFAALVAFAVIRSINP---- 342  
 Db 823 LVGLMALTPLSPYKRYIISWCLW-----WLYQFLTRVEAQOFLWIPPLNVRG 868  
 QY 343 .GNSRLVLFLVYEHWPWYLFELFPLLGGFGLW-----GAFFIRAN-IAWCRRK 392  
 Db 869 GRDAVILLMCVH-PTLVFDIK--LLLAFFGFLWILDASLKVYFVRVOGLURFCALAR 926  
 QY 393 STKGKYPVLEVILVAATRAVIAF 416  
 Db 927 KMGCHHYVOMVWIKLGALGTYV 950

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